



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Nicolas C. Rivron; Confirmation No. 8584  
Paul V. Trescony;  
Michael F. Wolf

Serial No.: 10/656,855

Filed: September 4, 2003 Customer No.: 28863

Examiner: Unknown

Group Art Unit: 3738 Docket No.: 1023-271US02

Title: IMPLANTABLE MEDICAL DEVICES HAVING RECESSES

CERTIFICATE UNDER 37 CFR 1.8: I hereby certify that this correspondence is being deposited with the United States Post Service, as First Class Mail, in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450 on April 8, 2004.

By: Shirley A. Betlach  
Name: Shirley A. Betlach

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
Alexandria, VA 22313-1450

Dear Sir:

Applicant submits the references listed on the attached form PTO-1449. This statement is being filed, to the best of Applicant's knowledge, before the receipt of a first Office Action on the merits.

Applicants have enclosed a copy of each article cited and each foreign document cited. Copies of the U.S. patents are not enclosed as this application was filed after June 30, 2003.

Respectfully submitted,

Date: 8 April 2004

Shumaker & Sieffert, P.A.  
8425 Seasons Parkway, Suite 105  
St. Paul, Minnesota 55125  
Phone: (651) 735-1100  
Fax: (651) 735-1102

Daniel J. Hanson  
By: Daniel J. Hanson  
Reg. No. 46,757



Form 1449*		Docket Number: 2023-271US02	Application Number: 10/656,855
<b>INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION</b> (Use several sheets if necessary)		Applicant: Nicolas Rivron; Paul Trescony; Michael F. Wolf	
		Filing Date: September 4, 2003	Group Art Unit: 3738
		Examiner Name: Unknown	

### U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Issue/Document Publication Date	Name	Filing Date If Appropriate
	4,177,334	12/04/1979	Okita	
	4,418,691	12/06/1983	Yannas et al.	
	4,553,272	11/19/1985	Mears	
	4,804,382	02/14/1989	Turina et al.	
	4,820,626	04/11/1989	Williams et al.	
	4,960,423	10/02/1990	Smith	
	5,035,708	07/30/1991	Alchias et al.	
	5,171,261	12/15/1992	Noishiki et al.	
	5,230,693	07/27/1993	Williams et al.	
	5,376,118	12/27/1994	Kaplan et al.	
	5,387,236	02/07/1995	Noishiki et al.	

### FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Publication Date	Country	Translation	
				Yes	No
	93/18214	09/16/1993	PCT		
	0 630 432	12/28/1994	EPO		
	0 790 042 A2	08/20/1997	EPO		

### OTHER DOCUMENTS (Including Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication)

	Ballermann, B.J. and Ott, M.J., "Adhesion and differentiation of endothelial cells by exposure to chronic shear stress: a vascular graft model," <i>Blood Purif.</i> 13(3-4):125-34 (1995).
	Deutsch, M., Fischlein, Meinhart J.G., and Zilla, P., "In Vitro Endothelialization of Sympathetic Vascular Grafts in Long Term Clinical Use," <i>Tissue Engineering of Vascular Prosthetic Grafts.</i> Zilla, P. and Greisler, H.P., eds. pp. 189-194, R.G. Landes Company, 1999.
	Herring, M., Dilley, R., Jerslid, R., Boxer, L., Gardner, A., and Glover, J., "Seeding arterial prosthesis with vascular endothelium, The nature of the lining," <i>Ann Surg.</i> 190:84-90, 1979.

EXAMINER	Date Considered

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>Form 1449*</b>  <b>INFORMATION DISCLOSURE STATEMENT</b>  <b>IN AN APPLICATION</b>  (Use several sheets if necessary)		Docket Number: 1023-271US02	Application Number: 10/656,855
		Applicant: Nicolas Rivron; Paul Trescony; Michael F. Wolf	
		Filing Date: September 4, 2003	Group Art Unit: 3738
		Examiner Name: Unknown	

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Issue/Document Publication Date	Name	Filing Date If Appropriate
	5,433,909	07/18/1995	Mortakos et al.	
	5,437,900	08/01/1995	Kuzowski	
	5,462,781	10/31/1995	Zukowski	
	5,474,824	12/12/1995	Mortakos et al.	
	5,628,781	05/13/1997	Williams et al.	
	5,634,879	06/03/1997	Mueller-Glauser et al.	
	5,653,745	08/05/1997	Trescony et al.	
	5,744,515	04/28/1998	Clapper	
	5,879,383	03/09/1999	Bruchman et al.	
	5,861,033	01/19/1999	Mortakos et al.	
	5,925,074	07/20/1999	Gringas et al.	
	6,352,555	03/05/2002	Dzau et al.	
	6,517,571	02/11/2003	Brauker et al.	
	6,579,313	06/17/2003	Dzau et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Document Number	Publication Date	Country	Translation	
				Yes	No

**OTHER DOCUMENTS (Including Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication)**

	Dardik, A., Liu, A., and Ballermann, B., "Chronic in vitro shear stress stimulates endothelial cell retention on prosthetic vascular grafts and reduces subsequent in vivo neointimal thickness," J Vasc Surg. 29(1):157-167 (1999).
	Giudiceandrea A., Seifalian, A.M., Krijgsman, B., and Hamilton, G., "Effect of porlonge pulsatile shear stress in vitro on endothelial cell seeded PTFE and compliant polyurethane vascular grafts," Eur J Vasc Endovasc Surg. 15(2):147-54 (1998).
	Miyata, T., Conte, M.S., Trodel, L.A., Mason, D., Whittemore, A.D., and Birinyi, L.K., "Delayed exposure to pulsatile shear stress improves retention of human saphenous vein endothelial cells on seeded ePTFE grafts," J Sur Res. 50:485-493 (1991).

EXAMINER	Date Considered

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1449*		Docket Number: 1023-271US02	Application Number: 10/656,855
<b>INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION</b> (Use several sheets if necessary)		Applicant: Nicolas Rivron; Paul Trescony; Michael F. Wolf	
		Filing Date: September 4, 2003	Group Art Unit: 3738
		Examiner Name: Unknown	

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Issue/Document Publication Date	Name	Filing Date If Appropriate
	6,704,604	03/09/04	Soukup, et al.	
		1		

**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Document Number	Publication Date	Country	Translation	
				Yes	No

**OTHER DOCUMENTS (Including Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication)**

	Meinhart, J.G., Deutsch, M., Fischlein, T., Howanietz, N., Froschl, A., Zilla, P., "Clinical autologous in vitro endothelialization of 153 infrainguinal ePTFE grafts," Annals of Thoracic Surgery, 71(5 Suppl.):S327-331, (2001).
	Nerem, R.M., Alexander, R.W., Chappell, D.C., Medford, R.M., Varner S.E., and Taylor, W.R., "The study of the influence of flow on vascular endothelial biology," Am J Med Sci, 316(3):169-175 (1998).
	Ott, M. J, and Ballermann, B.J., "Shear stress-conditioned, endothelial cell-seeded vascular grafts: improved cell adherence in response to in vitro shear stress," Surgery. 117(3):334-339 (1995).
	Ratcliffe, A., "Tissue engineering of vascular grafts," Matrix Bio. 19:353-357 (2000).
	Sank, A., Rostami, K., Weaver, F., Ertl, D., Yellin, Al, Nimni, M., And Tuan, T., "New evidence and new hope concerning endothelial seeding of vascular grafts," Am J Surg. 164:199-204 (1992).
	Voorhees, A.B., Jaretzki, A., Blakemore, A.H., "The use of tubes constructed from Vinyon N cloth in bridging arterial defects." Ann Surg 135:332, 1952.
	Weinberg, C.B., and Bell, E., "A blood vessel model constructed from collagen and cultured vascular cells," Science. 231:397:400 (1986).

EXAMINER	Date Considered

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.